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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTO	ATTORNEY DOCKET NO.		
CB780Ly	328 06/1		N	2750-942P		
- 			EXAMINER			
	002292 HM12/0626 BIRCH STEWART KOLASCH & BIRCH			SHEINBERG, M		
PO 30X)	ART UNIT	PAPER NUMBER		
FALLS C	:HURCH VA 2	2040-9747 ;	1631	5		
			DATE MAILED:	06/26/01		
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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

* to		Applicatio	n No	Applicant(s)					
					- Τ ΔΙ				
	Office Action Summary	09/595,32	·	ALEXANDROV ET AL.					
	·	Examiner		Art Unit					
		Monika B.		1631	1-1				
Period fo					iaress				
THE N - Exter after - If the - If NO - Failui - Any r	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory pereto reply within the set or extended period for reply will, by stately received by the Office later than three months after the maximum days after the maximum statutory. See 37 CFR 1.704(b).	N. R 1.136 (a). In no evolution reply within the staturiod will apply and will atute, cause the apple	ent, however, may a reply be tir tory minimum of thirty (30) day I expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered tim the mailing date of this D (35 U.S.C. § 133).	ely. communication.				
1)	Responsive to communication(s) filed on _	·							
2a) <u></u> ☐	This action is FINAL . 2b)⊠	This action is	non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)⊠ Claim(s) <u>1-50</u> is/are pending in the application.									
4a) Of the above claim(s) is/are withdrawn from consideration.									
5)	5) Claim(s) is/are allowed.								
6)□	6) Claim(s) is/are rejected.								
7))☐ Claim(s) is/are objected to.								
8)⊠	Claims <u>1-50</u> are subject to restriction and/	or election req	uirement.						
Applicati	on Papers								
9) The specification is objected to by the Examiner.									
10)	10) The drawing(s) filed on is/are objected to by the Examiner.								
11) The proposed drawing correction filed on is: a) approved b) disapproved.									
12) The oath or declaration is objected to by the Examiner.									
Priority (ınder 35 U.S.C. § 119								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a)	☐ All b)☐ Some * c)☐ None of:								
1. Certified copies of the priority documents have been received.									
2. Certified copies of the priority documents have been received in Application No									
*	3. Copies of the certified copies of the paper application from the International See the attached detailed Office action for a	l Bureau (PCT	Rule 17.2(a)).		al Stage				
14)	Acknowledgement is made of a claim for do								
Attachmen	t(s)								
16) 🔲 Not	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-946 ormation Disclosure Statement(s) (PTO-1449) Paper No		19) Notice of Informa	nmary (PTO-413) Paper No(s) mal Patent Application (PTO-152) equence Listing Error Report .					

U.S. Patent and Trademark Office PTO-326 (Rev. 01-01)

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Notification

The art unit designated for this application has changed. Applicant(s) are hereby informed that future correspondence should be directed to Art Unit 1631.

Sequence Compliance

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR § 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR § 1.821 through 1.825, please refer to the attached Raw Sequence Listing Error Report. Please provide a Statement as per 37 CFR § 1.821 (f) stating that the Paper Listing and the computer readable format are the same. Applicant(s) are given the same response time regarding this failure to comply as that set forth to respond to this office action. A complete response to this office action includes compliance with this sequence rule compliance. Failure to comply may result in abandonment of this application.

Restriction/Election Requirement

Restriction to one of the following inventions is required under 35 U.S.C. § 121:

- I. Claims 1-24, drawn to polynucleotides and compositions containing same, classified in Class 536, subclass 23.1; and Class 435, subclasses 243, 320.1, and 325. If this group is elected, then the below sequence election requirement also is required.
- II. Claims 25-28, drawn to polypeptides, classified in Class 530, subclass 350. If this group is elected, then the below sequence election requirement also is required.

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- III. Claim 29, drawn to an antibody, classified in Class 530, subclass 387.1. If this group is elected, then the below sequence election requirement also is required.
- IV. Claims 30-37, drawn to methods of cell transformation, classified in Class 435, subclass 440. If this group is elected, then the below sequence election requirement also is required.
- V. Claim 38, drawn to methods of transcription and/or translation, classified in Class 514, subclass 44. If this group is elected, then the below sequence election requirement also is required.
- VI. Claims 39 and 40, drawn to methods of nucleic acid detection, classified in Class 435, subclass 6. If this group is elected, then the below sequence election requirement also is required.
- VII. Claims 41-50, drawn to a plant or plant cell, classified in Class 435, subclass 418; and Class 800, subclass 295. If this group is elected, then the below sequence election requirement also is required, along with a species election after it.

The inventions are distinct, each from the other because of the following reasons:

The inventions of Groups (I, IV, V, VI, and VII); Group II; and Group III, are independent inventions because they are directed to different chemical types regarding the critical limitations therein. For Groups I, IV, V, VI, and VII, the critical feature is a nucleic acid; for Group II the critical feature is a polypeptide; and for Group III the critical feature is an antibody. It is acknowledged that various processing steps may cause a polypeptide of Group II to be directed as to its synthesis by a polynucleotide of Groups I, IV, V, VI, and VII, however, the completely separate chemical types of the inventions of the nucleic acid, polypeptide, and antibody Groups supports the undue search burden if both were examined together.

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Additionally, polynucleotides, polypeptides, and antibodies have been most commonly, albeit not always, separately characterized and published in the Biochemical literature, thus significantly adding to the search burden if examined together as compared to being searched separately. Also, it is pointed out that processing that may connect two Groups does not prevent them from being viewed as distinct because enough processing can result in producing any composition from any other composition if the processing is not limited as to additions, subtractions, enzyme action, etc. Thus, the three Groupings of (I, IV, V, VI, and VII); (II); and (III) are independent and/or distinct invention types for restriction purposes.

The inventions of Group I and Groups IV, V, VI, VII are related as product and distinct processes of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (M.P.E.P. § 806.05(h)). In the instant case the nucleic acids of Group I can be used in the distinct processes of the inventions of Groups IV, V, VI, and VII. The use of Group IV is directed to cell transformation; the use of Group V is directed to transcription and /or translation modulation; the use of Group VI is directed to detection; and the use of Group VII is directed to a plant or plant cell. Alternatively, the nucleic acids of Group I can be used in antisense therapy which is also a clearly distinct usage of such nucleic acids.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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In addition, each Group detailed above reads on patentably distinct sequences. Each sequence is patentably distinct because they are unrelated sequences, and a further restriction is applied to each Group. For an elected Group drawn to amino acid sequences, the Applicant(s) must further elect a single amino acid sequence. For an elected Group drawn to nucleotide sequences, the Applicant(s) must elect a single nucleic acid sequence (See MPEP 803.04). It is noted that the multitude of sequence submissions for examination has resulted in an undue search burden if more than one nucleic acid sequence is elected, thus making the previous waiver for up to 10 elected nucleic acid sequences effectively impossible to reasonably implement.

MPEP 803.04 states:

Nucleotide sequences encoding different proteins are structurally distinct chemical compounds and are unrelated to one another. These sequences are thus deemed to normally constitute independent and distinct inventions with the meaning of 35 U.S.C. 121. Absent evidence to the contrary, each such nucleotide sequence is presumed to represent an independent and distinct invention, subject to a restriction requirement pursuant to 35 U.S.C. 121 and 37 CFR 1.141 et seq. Examination will be restricted to only the elected sequence.

It has been determined that 1(ONE) sequence constitutes a reasonable number for examination purposes under the present conditions. At present the huge number of submissions of claims directed to various sequences, such as nucleic acids or polypeptides, is so large that the election of 1 (one) sequence of this type is now deemed to be practically appropriate so as to not overwhelm the examination and search processes for such claims.

Examination will be restricted to only the elected sequence.

Species Election Requirement Applicable to Group VII:

This application contains claims directed to the following patentably distinct species of the claimed invention: a) cell of a plant (claims 41-45); b) a regenerated plant (claims 41-50); and c) a plant partially containing exogenous nucleic acids such as by grafting (claims 41-45).

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 41-45 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR § 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the

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currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993) (See 37 CFR § 1.6(d)). The CM1 Fax Center number is either (703) 308-4242, or (703) 308-4028.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monika B. Sheinberg, whose telephone number is (703) 306-0511. The examiner can normally be reached on Monday-Friday from 8 A.M. to 4 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward, Ph.D., can be reached on (703) 308-4028.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Patent Analyst, Tina Plunkett, whose telephone number is (703) 305-3524, or to the Technical Center receptionist whose telephone number is (703) 308-0196.

June 20, 2001

Monika B. Sheinberg Patent Examiner Art Unit 1631

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